

1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL. SHALL BE BEYOND WALL FINISH OR STUCCO.
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. THESE NON-IMPACT RATED PRODUCT INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC).
4. ALL ANCHORS SECURING PRODUCT FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
5. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS CERTIFIED & QUALITY ASSURED BY A NATIONALLY ACCREDITED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH CERTIFICATION/QA ENTITIES SPECIFICATIONS. THE PRODUCT ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
6. CERTIFICATION OF THESE PRODUCT INSTALLATIONS SHALL BE CONSIDERED VOID IF ANY OF THE FOLLOWING APPLY: 1) THE ARE INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT. 2) IF THEY ARE INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH WINDOW/DOOR INSTALLATIONS. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INCORRECT OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
7. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN THE PRODUCTS CERTIFICATION SHALL CONTROL FOR THE INSTALLED PRODUCT.
8. THESE DRAWINGS CERTIFY THE PRODUCT INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
-----------------------------	---	------------------	-----------------------

FRAME/SILL SCREWS				
(4) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	

(4) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2) N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A

INSTALLATION CLIP SCREWS (ALTERNATE STRAIGHT CONDITION)				
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"	→
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	

(4) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

STRIKE SCREWS				
(4) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW		1 1/4"	3/4"
MIN. 1/8 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW		FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW		FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW		FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW		1 1/4"	2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSEY/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) STANDARD BENT CLIP INSTALLATION SCREWS SHALL BE POSITIONED WITHIN 1/4" OF THE BUCK/SUBSTRATE EDGE AND, IF INTO WOOD, ANGLED 20 TO 30 DEGREES INTO THE BUCK.
- (3) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.
- (4) 2X_ BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 3 1/2" (2X4).

FOR MAX. FRAME WIDTH, SEE "ALLOWABLE DESIGN PRESSURE" TABLE ON THIS SHEET

10" MAX. O.C.

6" MAX.

6" MAX.

FRAME SCREWS OR INSTALLATION CLIPS WHERE SHOWN AT HEAD. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.

ACTIVE

INACTIVE

SIMILAR & OPPOSITE

B1 6

STRIKE PLATE

STRIKE SCREWS INTO SUBSTRATE (1 PER STRIKE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

SILL SCREWS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.

FIN FASTENER WITHIN 4" OF CORNERS & 5" TO 7" O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.

6" MAX.

3"

—EDGE DISTANCE MAY BE DECREASED TO 1/2" IF SCREWS ARE ANGLED 15 TO 20 DEGREES AWAY FROM THE EDGE.

CONDITIONS SHOWN ON THIS DRAWING ARE GOVERNED BY INSTALLATION REQUIREMENTS ONLY. THE GOVERNING CONDITIONS ON ANY SPECIFIC PRODUCT SHALL BE THE LESSER OF THOSE SPECIFIED IN THE PRODUCTS TDI APPROVAL OR THAT SHOWN IN THESE DRAWINGS.

ALL ALTERNATE ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE EQUIVALENT TO OR STRONGER THAN THE ANCHOR(S) USED IN TESTING WITH THIS PRODUCT.

INSTALLATION EVALUATION IS BASED ON APPLICABLE TEST ANCHOR STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE BUILDING CODES AND STANDARDS CONSIDERED WITH THE EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THE REFERENCED PRODUCT, PRIOR TO STATING CODE COMPLIANCE, THE MANUFACTURER SHALL CONFORM WITH THE INSTALLATION EVALUATION ENGINEER OF RECORD THAT THE INSTALLATIONS SPECIFIED HERE-IN ARE CURRENT WITH THE THEN CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

SCALE: $1/2'' = 1'-0''$
(NAIL FIN MOUNT CONDITION)

(1) DOOR STYLE	MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE (+/- PSF)
CONTEMPORARY	95 1/4	95 1/2	40
FRENCH	95 1/4	95 1/2	50
FRENCH	95 1/4	82	55
FRENCH	71 1/4	95 1/2	60

(1) CONTEMPORARY & FRENCH ARE THE SAME EXCEPT THE DOOR PANEL STILES & RAILS OF THE FRENCH ARE TALLER THAN THE CONTEMPORARY.

[illegible]

RARY
ELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000



DESIGNER SERIES FRENCH & NON-IMPACT SLIDING DOOR

CHAEFER ENGINEERING & , P.A. (REG. NO. F-14980)

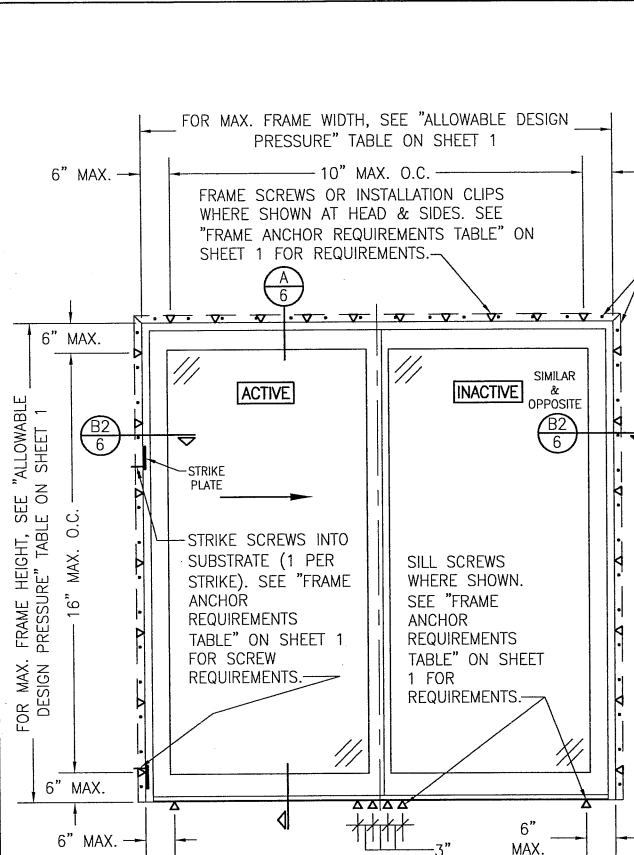
30 150TH COURT NORTH
SEABACH GARDENS, FL 33418
PHONE: 561-744-3624

DRAWING TITLE

CONSULTANTS
W. W. SCOTT
CONSULTING
748
PALM P

CERTIFICATION
MAY 16 2016
WAPREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO.	REV.
1659T	
SHEET NO.	
1	OF 7



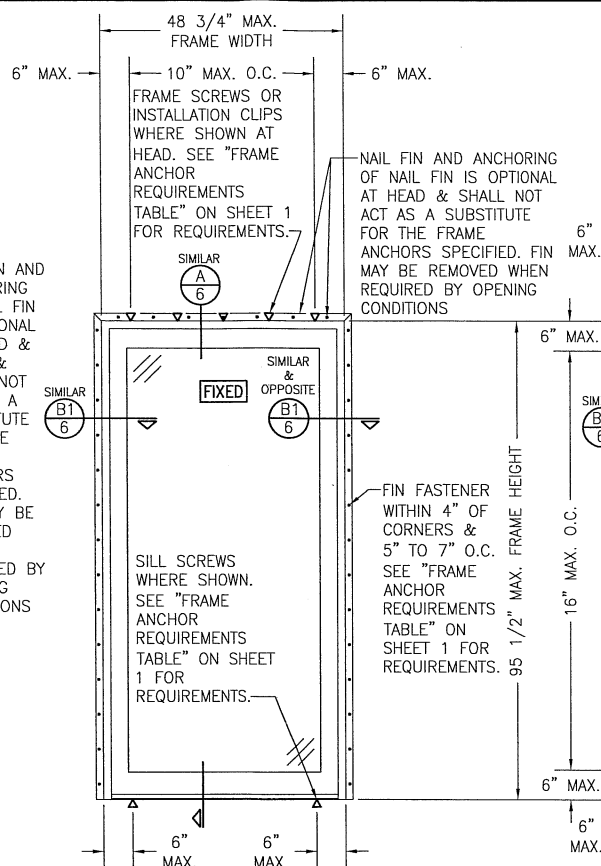
**EXTERIOR ELEVATION:
2-PANEL SLIDING DOOR**

SCALE: 1/2" = 1'-0"

(FRAME SCREW OR CLIP MOUNT CONDITION)

**ALLOWABLE DESIGN PRESSURE
(2-PANEL SLIDING DOOR)**

SEE 2-PANEL SLIDING DOOR TABLE ON
SHEET 1



**EXTERIOR ELEVATION:
SINGLE FIXED PANEL DOOR**

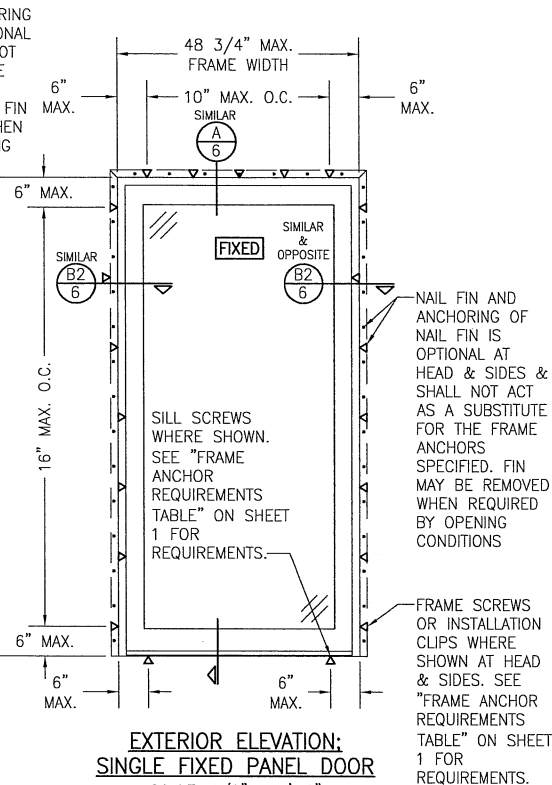
SCALE: 1/2" = 1'-0"

(NAIL FIN MOUNT CONDITION)

**ALLOWABLE DESIGN PRESSURE
(CONTEMPORARY & FRENCH STYLE
SINGLE FIXED PANEL DOOR)**

+/- 60 PSF

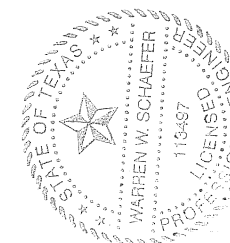
(1) CONTEMPORARY & FRENCH ARE THE
SAME EXCEPT THE DOOR PANEL STILES
& RAILS OF THE FRENCH ARE TALLER
THAN THE CONTEMPORARY.



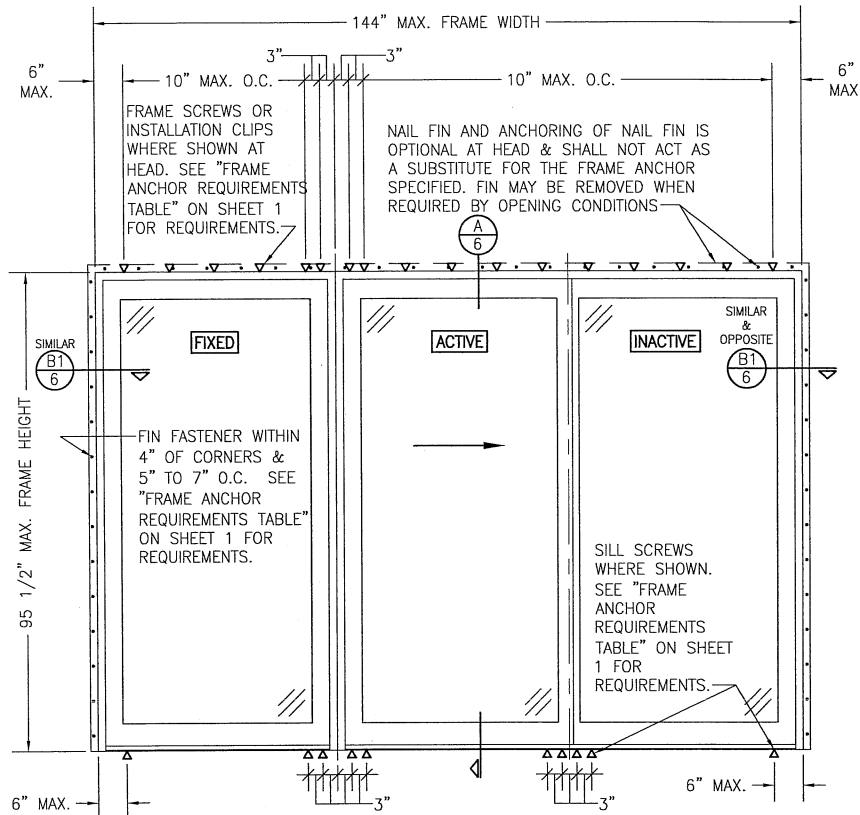
**EXTERIOR ELEVATION:
SINGLE FIXED PANEL DOOR**

SCALE: 1/2" = 1'-0"

(FRAME SCREW OR CLIP MOUNT
CONDITION)

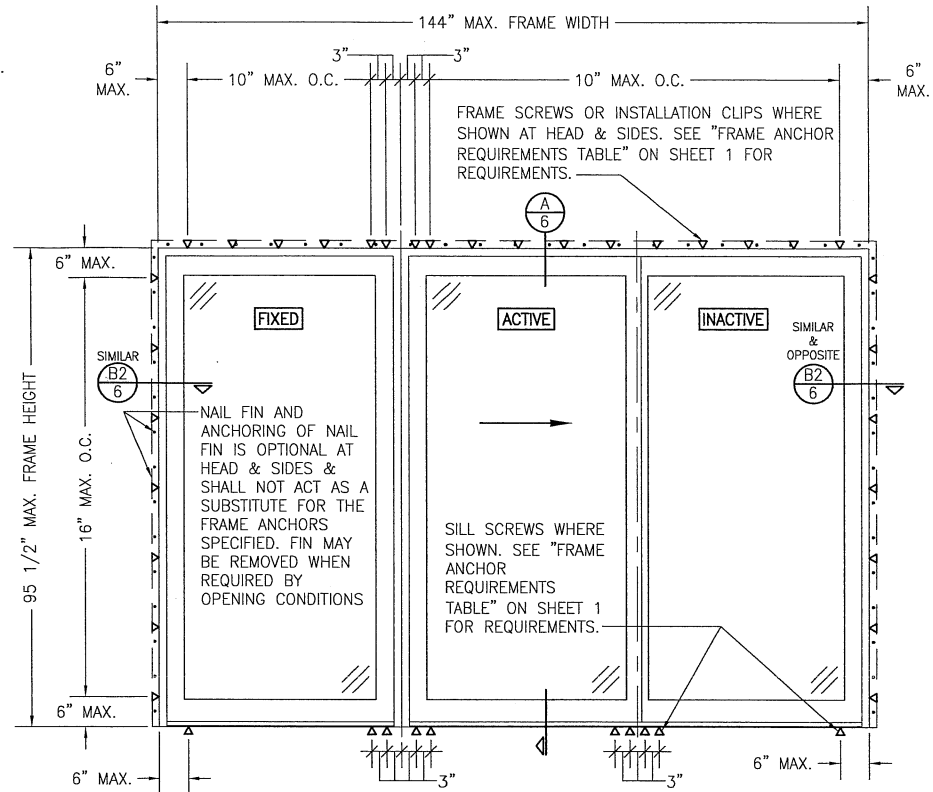


DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/11/16	
DATE	BY	REVISION	DESCRIPTION
JOB INFORMATION: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
DRAWING TITLE DESIGNER SERIES FRENCH & CONTEMPORARY NON-IMPACT SLIDING DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION MAY 16 2016 WARREN W. SCHAEFER, P.E. P.E. NO. 113497			
DRAWING NO. 1659T		REV.	
SHEET NO. 2		OF 7	

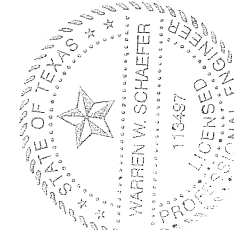


EXTERIOR ELEVATION:
2-PANEL SLIDING DOOR WITH SIDELIGHT
 SCALE: 1/2" = 1'-0"
 (NAIL FIN MOUNT CONDITION)

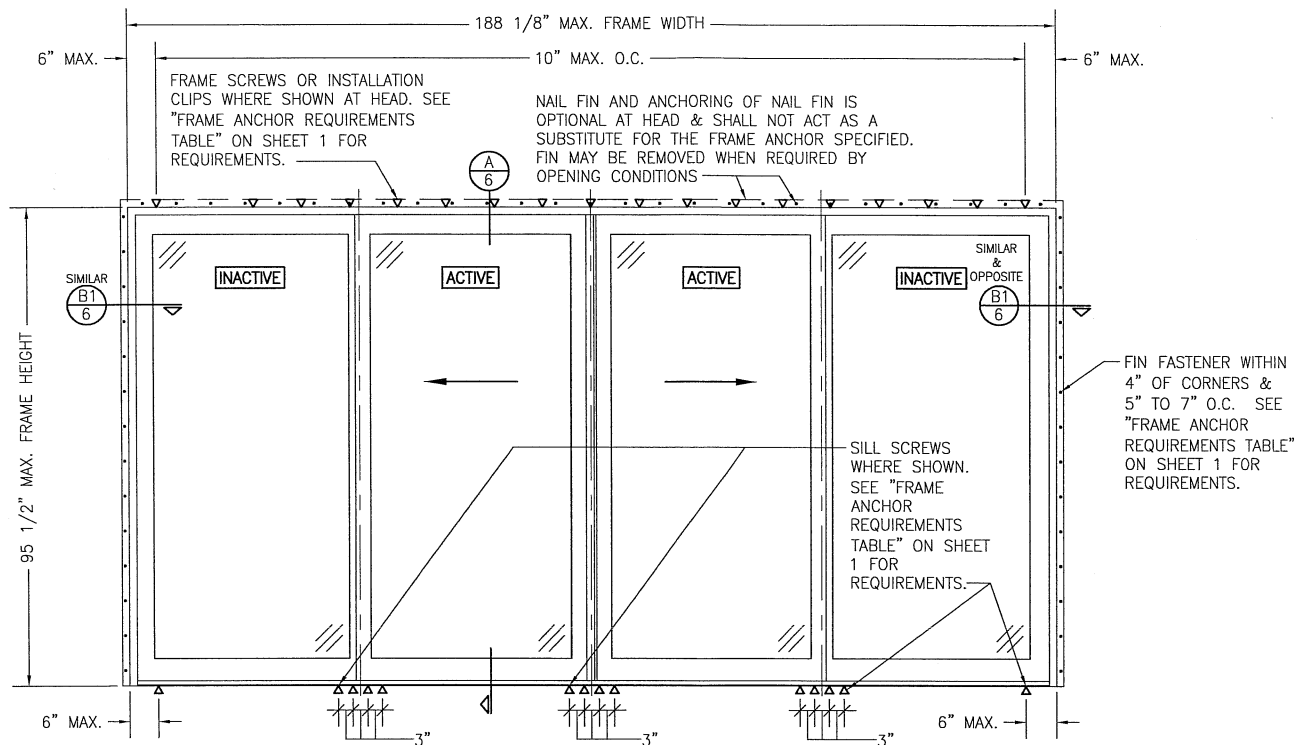
ALLOWABLE DESIGN PRESSURE (CONTEMPORARY & FRENCH STYLE 2-PANEL SLIDING DOOR WITH SIDELIGHT)
+/- 40 PSF
(1) CONTEMPORARY & FRENCH ARE THE SAME EXCEPT THE DOOR PANEL STILES & RAILS OF THE FRENCH ARE TALLER THAN THE CONTEMPORARY.



EXTERIOR ELEVATION:
2-PANEL SLIDING DOOR WITH SIDELIGHT
 SCALE: 1/2" = 1'-0"
 (FRAME SCREW OR CLIP MOUNT CONDITION)



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/11/16	
DATE	BY	REVISION	DESCRIPTION
JOB INFORMATION: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
DESIGNER SERIES FRENCH & CONTEMPORARY NON-IMPACT SLIDING DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 425 SOUTH BAYVIEW AVE., SUITE 100 PALM BEACH, FLORIDA 33418 PHONE: 561-744-3424			
CERTIFICATION MAY 16 2016 WARREN W. SCHAEFER, P.E. (E. NO. 113487)		DRAWING NO. 1659T SHEET NO. 3 OF 7	

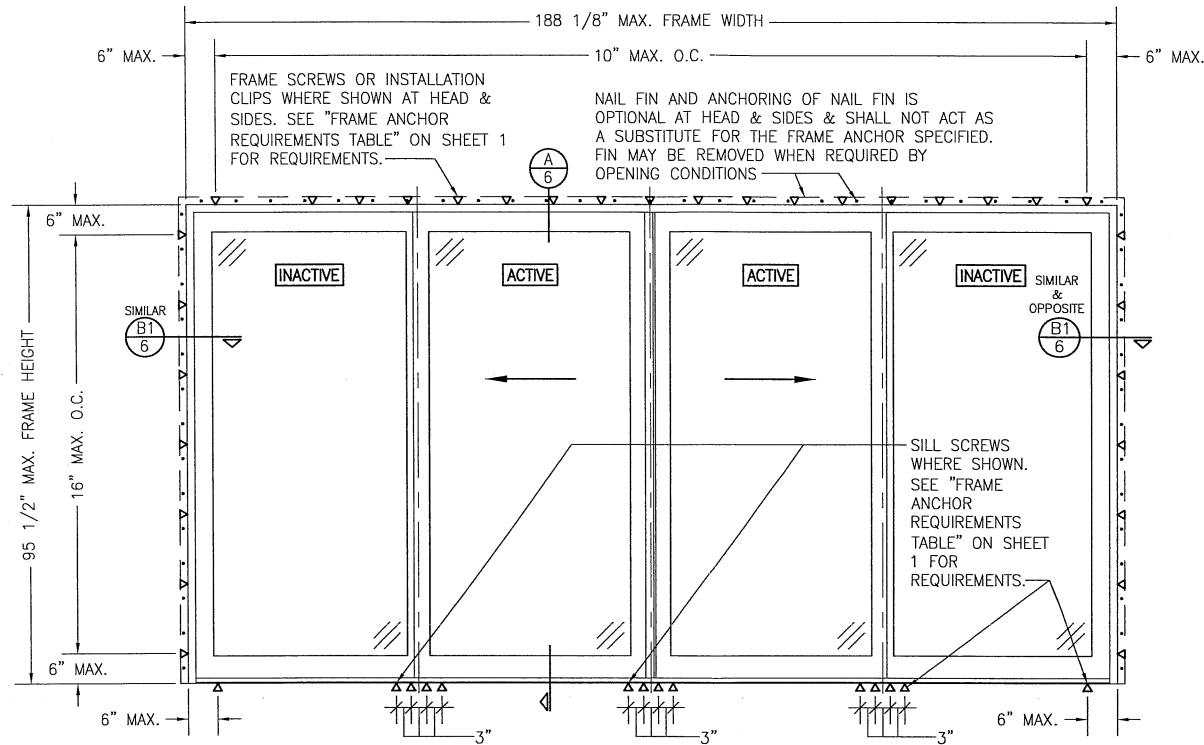


**EXTERIOR ELEVATION:
4-PANEL SLIDING DOOR**
SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE (CONTEMPORARY & FRENCH STILE 4-PANEL SLIDING DOOR)
+/- 25 PSF
(1) CONTEMPORY & FRENCH ARE THE SAME EXCEPT THE DOOR PANEL STILES & RAILS OF THE FRENCH ARE TALLER THAN THE CONTEMPORARY.

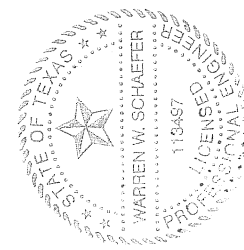


DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/11/16	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: DESIGNER SERIES FRENCH & CONTEMPORARY NON-IMPACT SLIDING DOOR			
CONSULTANTS: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION		MAY 16 2016	
WARREN W. SCHAEFER P.E. NO. 113487		WARREN W. SCHAEFER, P.E. P.E. NO. 113487	
DRAWING NO. 1659T		REV.	
SHEET NO. 4		OF 7	

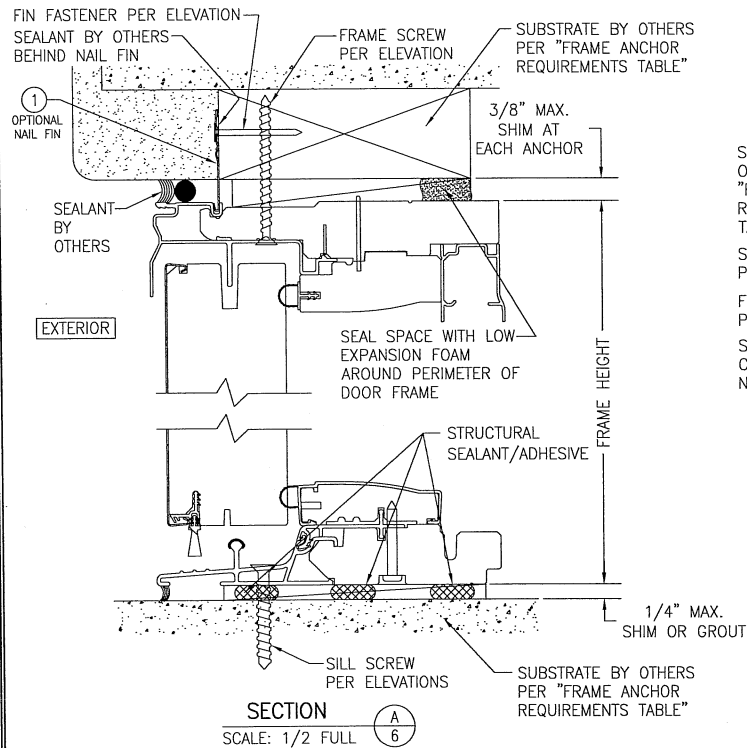


EXTERIOR ELEVATION:
4-PANEL SLIDING DOOR
 SCALE: 1/2" = 1'-0"
 (FRAME SCREW OR CLIP MOUNT CONDITION)

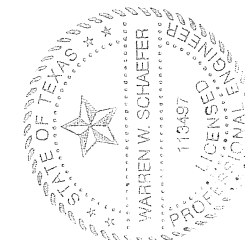
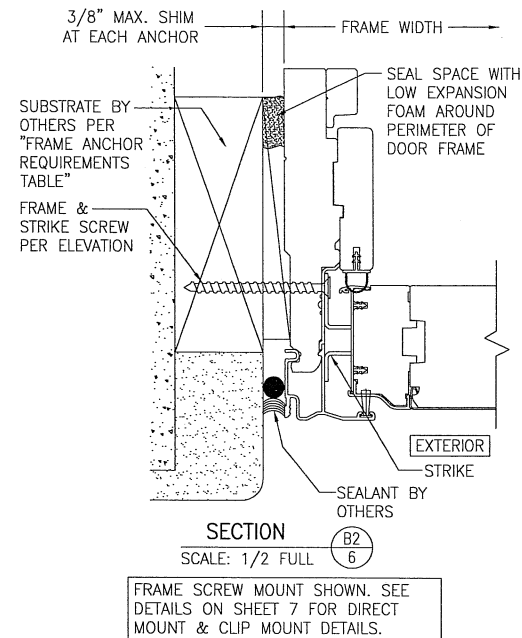
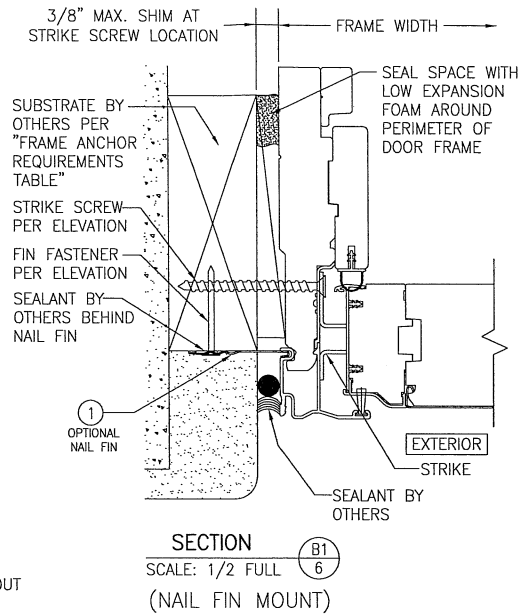
ALLOWABLE DESIGN PRESSURE
(CONTEMPORARY & FRENCH STILE 4-PANEL SLIDING DOOR)
+/- 25 PSF
(1) CONTEMPORARY & FRENCH ARE THE SAME EXCEPT THE DOOR PANEL STILES & RAILS OF THE FRENCH ARE TALLER THAN THE CONTEMPORARY.




DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/11/16	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: DESIGNER SERIES FRENCH & CONTEMPORARY NON-IMPACT SLIDING DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
JOB INFORMATION: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
CERTIFICATION: MAY 16 2016 WARREN W. SCHAEFER, P.E. P.E. NO. 113487			
DRAWING NO. 1659T		REV.	
SHEET NO. 5		OF 7	



FRAME SCREW WITH OPTIONAL NAIL FIN CONDITION SHOWN. DIRECT MOUNT & CLIP CONDITION ALSO APPLY. SEE DETAILS ON SHEET 7 FOR DIRECT MOUNT & CLIP CONDITIONS.



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/11/16	
NO.	REVISION	DESCRIPTION	DATE
DESIGNER SERIES: FRENCH & CONTEMPORARY NON-IMPACT SLIDING DOOR CONSULTANTS: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000 			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION	MAY 16 2016 WARREN W. SCHAEFER, P.E. P.E. NO. 113497		
DRAWING NO.	REV.		
1659T			
SHEET NO.			
6	OF 7		

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).

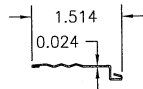
SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE"

SEALANT BY OTHERS

FRAME SCREW PER ELEVATION & "FRAME ANCHOR REQUIREMENTS TABLE"

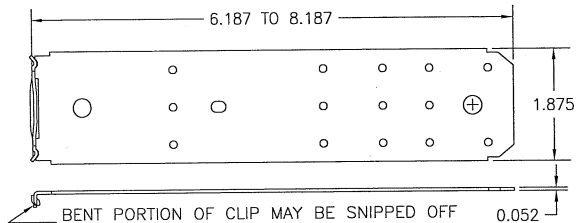
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



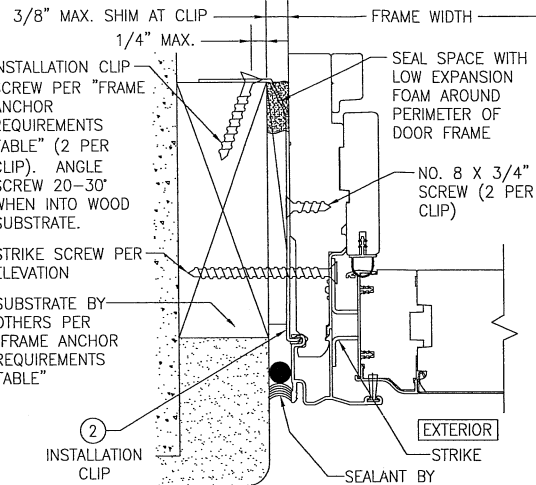
① NAIL FIN

3003-H14 ALUMINUM



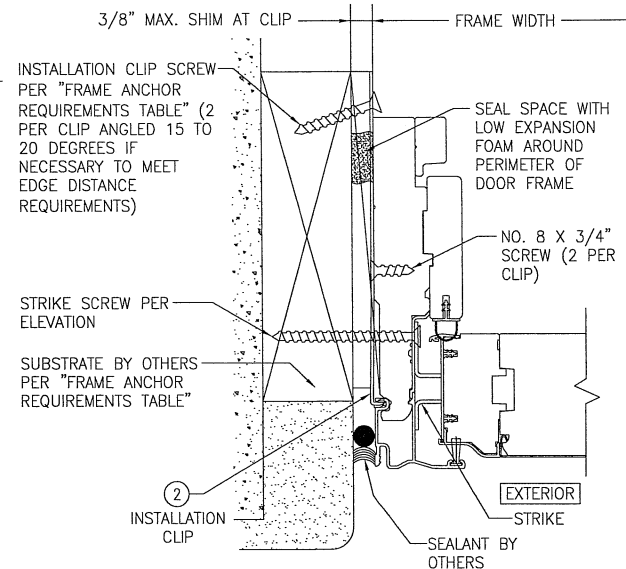
BENT PORTION OF CLIP MAY BE SNIPPED OFF IF REQ'D FOR PLACEMENT TO DOOR FRAME.

② FRAME INSTALLATION CLIP
(50 KSI STEEL)



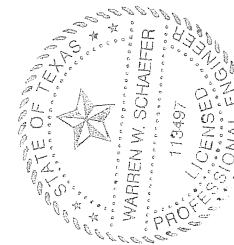
STANDARD INSTALLATION CLIP DETAIL (BENT CLIP)

(SIDE SECTION SHOWN; HEAD IS INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(INSTALLATION CLIPS ARE NOT APPLICABLE AT THE SILL)



ALTERNATE INSTALLATION CLIP DETAIL (STRAIGHT CLIP)

(SIDE SECTION SHOWN; HEAD IS INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(INSTALLATION CLIPS ARE NOT APPLICABLE AT THE SILL)



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/11/16	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: DESIGNER SERIES FRENCH & CONTEMPORARY NON-IMPACT SLIDING DOOR CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: MAY 16 2016 WARREN W. SCHAEFER, P.E. P.E. NO. 113497			
DRAWING NO. 1659T		REV.	
SHEET NO. 7		OF 7	